

JAN 22 2009

PATENT
Application 10/529,966
Attorney Docket 1047-025

AMENDMENTS

AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A method comprising a plurality of activities comprising:
providing a solution comprising water and a dispersion of solid particles
comprising a an internally crosslinked polymer comprising at least one hydrophobic
substituent and at least one hydrophilic substituent; and
coating at least a portion of a surface of a plant with the solution.
2. – 14. (Canceled)
15. (Withdrawn) The method of claim 1, wherein the particles are nanoparticles.
16. (Withdrawn) The method of claim 1, wherein each of the particles has a molecular
weight of from about 500,000 to about 50,000,000.
17. (Withdrawn) The method of claim 1, wherein the particles have an average diameter
of from about 2 nanometers to about 1000 nanometers.
18. – 66. (Canceled)
67. (Withdrawn) A method comprising a plurality of activities comprising:
providing a solution comprising water and a dispersion of solid particles
comprising a an internally crosslinked polymer comprising at least one hydrophobic
substituent and at least one hydrophilic substituent;
coating at least a portion of a surface with the solution; and
preventing the formation of ice on the surface.

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68. (Withdrawn) A method comprising a plurality of activities comprising:
polymerizing the at least one hydrophobic substituent and at least one hydrophilic substituent to form solid nanoparticles having an average diameter of from about 11 nanometers to about 450 nanometers, the nanoparticles comprising an internally crosslinked polymer comprising the at least one hydrophobic substituent and the at least one hydrophilic substituent; and
forming a solution comprising water and a dispersion of the solid nanoparticles.
69. (Original) A composition comprising:
an aqueous solution comprising a dispersion of solid particles comprising an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent.
70. (Previously Presented) A composition comprising:
water droplets comprising a dispersion of solid particles comprising an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent.
71. (Previously Presented) The composition of claim 69, wherein the copolymer releases heat over a range of dropping ambient temperatures beginning at about 40 degrees F.
72. (Previously Presented) The composition of claim 69, wherein the hydrophilic monomer is water soluble.
73. (Canceled)
74. (Previously Presented) The composition of claim 69, wherein the particles are nanoparticles.

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75. (Previously Presented) The composition of claim 69, wherein each of the particles has a molecular weight of from about 500,000 to about 50,000,000.
76. (Previously Presented) The composition of claim 69, wherein the particles have an average diameter of from about 2 microns to about 1000 microns.
77. – 81. (Canceled)
82. (Previously Presented) The composition of claim 69, wherein the particles have an average diameter of less than about 200 microns.
83. (Currently amended) The composition of claim 6970, wherein the water droplets are coated with a hydrated polymer gel.
84. (Currently amended) The composition of claim 6970, wherein the water droplets are coated with a hydrated polymer gel that, when applied to at least a portion of a surface of a plant, releases heat over a range of dropping ambient temperatures beginning at about 35 degrees F.
85. (Previously Presented) A composition comprising:
a foam comprising an aqueous solution comprising a dispersion of solid particles comprising an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent.
86. (Original) The composition of claim 85, wherein the foam comprises a hydrated polymer gel.
87. (Original) The composition of claim 85, wherein the foam comprises air bubbles.

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88. (Original) The composition of claim 85, wherein the foam comprises air bubbles having a diameter in the range of from about 10 microns to about 100 microns.